# Contents of volume 9

No. 1 pp 1–60 issued in November 1994
No. 2 pp 61–118 issued in December 1994
No. 3 pp 119–180 issued in February 1995
No. 4 pp 181–240 issued in April 1995
No. 5 pp 241–302 issued in July 1995
No. 6 pp 303–362 issued in September 1995

Abdullah AM → Ogawa K
Adams MA, Attiwill PM, Wang LM: Effects of phosphorus supply on growth and nitrogen fractions in xylem sap and foliage of *Eucalyptus regnans* (F. Muell.), *E. nitens* (Maiden) and *E. globulus* (Labill.) seedlings: implications for herbivory 324
Allen HL → Sampson DA
Attiwill PM → Adams MA
Awang M → Ogawa K

Bethge K → Mattheck C
Beyschlag W, Ryel RJ, Dietsch C: Shedding of older needle age classes does not necessarily reduce photosynthetic primary production of Norway spruce. Analysis with a 3-dimensional canopy photosynthesis model 51
Bortenschlager S → Nicolussi K
Bottacci A, Mariotti Lippi M, Tani G, Gellini R, Maugini E: Leaf phloem alterations in two provenances of *Abies alba* Miller (silver fir) during ageing 143
Brimont A → Pargney JC
Brown CL, Sommer HE, Wetzstein H: Morphological and histological differences in the development of dwarf mutants of sexual and somatic origin in diverse woody taxa 61
Brown PH, Weinbaum SA, Picchioni GA: Alternate bearing influences annual nutrient consumption and the total nutrient content of mature pistachio trees 158
Buschmann H → Popp M

Camiré C → Myre R
Catarino FM → Oliveira G
Chemardin M → Marchetti A
Chen YS → Yang KC
Chevrier N → Truax B
Chidumayo EN: Phenology and nutrition of miombo woodland trees in Zambia 67
Chiu C → Yang KC
Cienciala E, Lindroth A: Gas-exchange and sap flow measurements of *Salix viminalis* trees in short-rotation forest. I. Transpiration and sap flow 289
Cienciala E, Lindroth A: Gas-exchange and sap flow measurements of *Salix viminalis* trees in short-rotation forest. II. Diurnal and seasonal variations of stomatal response and water use efficiency 295
Correia O → Oliveira G
Cui K-m, Zhang Z-m, Li J-h, Li S-w, Li Z-l: Changes of peroxidase, esterase isozyme activities and some cell inclusions in regenerated vascular tissues after girdling in *Broussonetia papyrifera* (L.) Vent. 165

Davis G → Wisniewski M
Dietsch C → Beyschlag W
Dizengremel P → Marchetti A
Dubs R → Woodcock H
Dustin I → Vollenweider P
Dustin I, Vollenweider P, Hofer R-M, Hainard P: A study of the cambial zone and conductive phloem of common beech (*Fagus sylvatica* L.) using an image analysis method. II. Automated measurement procedure 113

Eckstein D → Sass U
Ehleringer JR → Phillips SL

Fujikawa S → Sano Y
Fukazawa K → Sano Y
Furukawa A → Ogawa K

Gagnon D → Truax B
Garbe V → Lyr H
Garrec J-P → Prügel B
Gellini R → Bottacci A
Grill D → Müller M
Guttenberger H → Müller M

Hagemeyer J, Lohrie K: Distribution of Cd and Zn in annual xylem rings of young spruce trees [*Picea abies* (L.) Karst.] grown in contaminated soil 195
Hagemeyer J: Radial distributions of Cd in stems of oak trees (*Quercus robur* L.) re-analyzed after 10 years 200
Hagihara A → Ogawa K
Hainard P → Dustin I
Hainard P → Vollenweider P
Hakulinen J, Julkunen-Tiitto R, Tahvanainen J: Does nitrogen fertilization have an impact on the trade-off between willow growth and defensive secondary metabolism? 235
Hazenberg G → Yang KC
Hofer R-M → Dustin I
Hofer R-M → Vollenweider P
Hofer R-M → Woodcock H
Holopainen JK → Palomäki V
Holopainen T → Janhunen S
Holopainen T → Palomäki V
Huante P → Rincón E
Hunter JR: Reconsidering the functions of latex 1

Janhunen S, Palomäki V, Holopainen T: Aluminium causes nutrient imbalance and structural changes in the needles of Scots pine without inducing clear root injuries 134
Johnson JD → Tognetti R
Julkunen-Tiitto R → Hakulinen J

Kauppi A → Tillman-Sutela E
Köhler B → Müller M
Körner C → Nicolussi K

Lambert F → Truax B
Li J-h → Cui K-m
Li S-w → Cui K-m
Li Z-l → Cui K-m
Lindroth A → Cienciala E
Lohrie K → Hagemeyer J
Loosveldt P → Prügel B
Lyr H, Garbe V: Influence of root temperature on growth of *Pinus sylvestris, Fagus sylvatica, Tilia cordata* and *Quercus robur* 220
Lütz C → Müller M

Marchetti A, Parmentier C, Chemardin M, Dizengremel P: Changes in enzyme activities involved in malate metabolism in oak leaves during rhythmic growth 318
Mariotti Lippi M → Bottachi A
Martins-Loução MA → Oliveira G
Mattheck C, Bethge K, West PW: Breakage of hollow tree stems 47
Maugini E → Bottacci A
Melville LH → Oh KI
Mensen R → Popp M
Michelozzi M → Tognetti R
Mikkelsen TN: Physiological responses of *Fagus sylvatica* L. exposed to low levels of ozone in open-top chambers 355
Muraoka TT → Weinbaum SA
Myre R, Camiré C: The establishment of stem nutrient distribution zones of European larch and tamarack using principal component analysis 26
Müller M, Köhler B, Grill D, Guttenberger H, Lütz C: The effects of various soils, different provenances and air pollution on root tip chromosomes in Norway spruce 73

Nicolussi K, Bortenschlager S, Körner C: Increase in tree-ring width in subalpine *Pinus cembra* from the central Alps that may be $CO_2$-related 181

Ogawa K, Furukawa A, Hagihara A, Abdullah AM, Awang M: In situ $CO_2$ gas-exchange in fruits of a tropical tree, *Durio zibethinus* Murray 241
Oh KI, Melville LH, Peterson RL: Comparative structural study of *Quercus serrata* and *Q. acutissima* formed by *Pisolithus tinctorius* and *Hebeloma cylindrosporum* 171
Oliveira G, Correia O, Martins-Loução MA, Catarino FM: Phenological and growth patterns of the Mediterranean oak *Quercus suber* L. 41

Palomäki V → Janhunen S
Palomäki V, Holopainen JK, Holopainen T: Effects of drought and waterlogging on ultrastructure of Scots pine and Norway spruce needles 98
Palomäki V, Raitio H: Chemical composition and ultrastructural changes in Scots pine needles in a forest decline area in southwestern Finland 311
Pargney JC, Brimont A: Production of concentrated polyphenols by the root cap cells of *Corylus* associated with *Tuber*: ultrastructural study and element localization using electron energy loss spectroscopy and imaging 149
Parmentier C → Marchetti A
Pérez-Soba M, Visser PHB de: Nitrogen metabolism of Douglas fir and Scots pine as affected by optimal nutrition and water supply under conditions of

relatively high atmospheric nitrogen deposition 19
Peterson RL → Oh KI
Phillips SL, Ehleringer JR: Limited uptake of summer precipitation by bigtooth maple (*Acer grandidentatum* Nutt) and Gambel's oak (*Quercus gambelii* Nutt) 214
Picchioni GA → Brown PH
Plant RE → Weinbaum SA
Popp M, Mensen R, Richter A, Buschmann H, Willert DJ von: Solutes and succulence in southern African mistletoes 303
Prügel B, Loosveldt P, Garrec J-P: Changes in the content and constituents of the cuticular wax of *Picea abies* (L.) Karst. in relation to needle ageing and tree decline in five European forest areas 80

Raitio H → Palomäki V
Rakowski KJ, Zwiazek JJ, Sumner MJ: Hydrogen fluoride effects on plasma membrane composition, ATPase activity and cell structure in needles of eastern white pine (*Pinus strobus*) seedlings 190
Richter A → Popp M
Rincón E, Huante P: Influence of mineral nutrient availability on growth of tree seedlings from the tropical deciduous forest 93
Ryel RJ → Beyschlag W

Sampson DA, Allen HL: Direct and indirect estimates of Leaf Area Index (LAI) for lodgepole and loblolly pine stands 119
Sano Y, Fujikawa S, Fukazawa K: Detection and features of wetwood in *Quercus mongolica* var. *grosseserrata* 261
Sass U, Eckstein D: The variability of vessel size in beech (*Fagus sylvatica* L.) and its ecophysiological interpretation 247
Sauter JJ → Stepien V
Schweingruber FH → Weber UM
Sennerby-Forsse L, Zsuffa L: Bud structure and resprouting in coppiced stools of *Salix viminalis* L., *S. eriocephala* Michx., and *S. amygdaloides* Anders. 224
Sommer HE → Brown CL
Stepien V, Sauter JJ: Ringing induces the accumulation of vegetative storage proteins in poplar bark 88
Strand M: Inhibition of photosynthesis in current-year needles of unfertilized and fertilized Norway spruce [*Picea abies* (L.) Karst.] during autumn and early winter 332
Sumner MJ → Rakowski KJ

Tahvanainen J → Hakulinen J
Tani G → Bottacci A
Tillman-Sutela E, Kauppi A: The morphological background to imbibition in seeds of *Pinus sylvestris* L. of different provenances 123
Tillman-Sutela E, Kauppi A: The significance of structure for imbibition in seeds of the Norway spruce, *Picea abies* (L.) Karst. 269
Tognetti R, Johnson JD, Michelozzi M: The response of European beech (*Fagus sylvatica* L.) seedlings from two Italian populations to drought and recovery 348
Trockenbrodt M: Structure and identification of root bark of *Quercus robur* L. 341
Truax B, Lambert F, Gagnon D, Chevrier N: Nitrate reductase and glutamine synthetase activities in relation to growth and nitrogen assimilation in red oak and red ash seedlings: effects of N-forms, N concentration and light intensity 12

Visser PHB de → Pérez-Soba M
Vittoz P → Vollenweider P
Vollenweider P → Dustin I
Vollenweider P → Woodcock H
Vollenweider P, Dustin I, Hofer R-M, Vittoz P, Hainard P: A study of the cambial zone and conductive phloem of common beech (*Fagus sylvatica* L.) using an image analysis method. I. Influence of tree age on the structure 106

Wang LM → Adams MA
Weber UM, Schweingruber FH: A dendroecological reconstruction of western spruce budworm outbreaks (*Choristoneura occidentalis*) in the Front Range, Colorado, from 1720 to 1986 204
Weinbaum SA → Brown PH
Weinbaum SA, Muraoka TT, Plant RE: Intracanopy variation in nitrogen cycling through leaves is influenced by irradiance and proximity to developing fruit in mature walnut trees 6
West PW → Mattheck C
Wetzstein H → Brown CL
Willert DJ von → Popp M
Wisniewski M, Davis G: Immunogold localization of pectins and glycoproteins in tissues of peach with reference to deep supercooling 253
Woodcock H, Vollenweider P, Dubs R, Hofer R-M: Crown alterations induced by decline: a study of relationships between growth rate and crown morphology in beech (*Fagus sylvatica* L.) 279

Yang KC, Chen YS, Chiu C, Hazenberg G: Formation and vertical distribution of sapwood and heartwood in *Cryptomeria japonica* D. Don 35

Zhang Z-m → Cui K-m
Zsuffa L → Sennerby-Forsse L
Zwiazek JJ → Rakowski KJ

Indexed in *Current Contents*